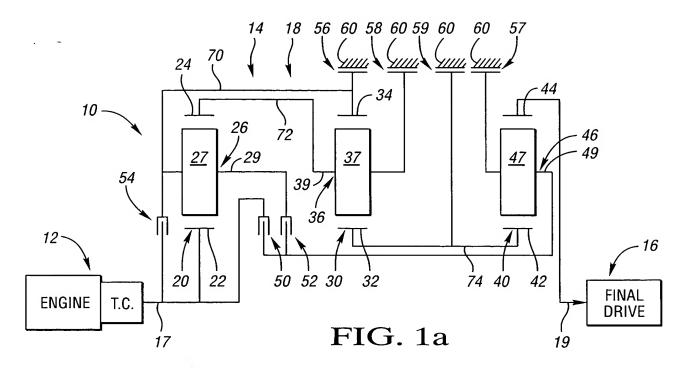
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	RATIOS	50	52	54	56	57	58	59
REVERSE 1	-2.74			X		X		
NEUTRAL	0.00					Х		
1	5.26					Χ	Χ	
2	2.67		Χ			Χ		
3	1.88		Χ				Χ	
4	1.45		Χ					Χ
5	1.00	Χ	Χ					
6	0.73	Χ						Χ
7	.64	Χ					Χ	
8	0.58	Χ			Χ			

FIG. 1b

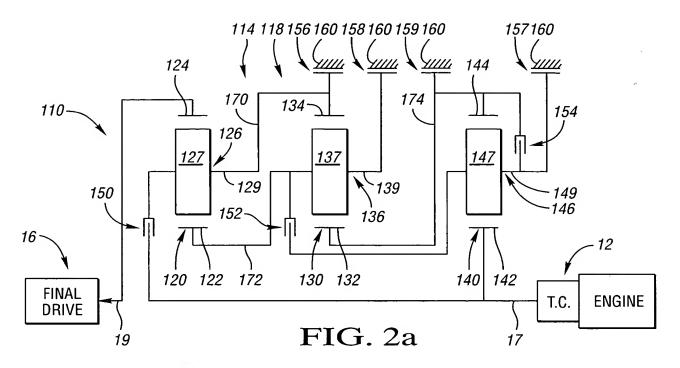
(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO: $\frac{N_{R1}}{N_{S1}} = 3.01$, $\frac{N_{R2}}{N_{S2}} = 2.09$, $\frac{N_{R3}}{N_{S3}} = 2.74$

RATIO SPREAD	9.15
RATIO STEPS	
REV/1	-0.52
1/2	1.97
2/3	1.42
3/4	1.30
4/5	1.45
5/6	1.36
6/7	1.14
7/8	1.12

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	RATIOS	150	152	154	156	157	158	159
REVERSE 2	-4.30			Χ	Χ			
REVERSE 1	-1.12			Χ			Χ	
NEUTRAL	0.00				Χ			
1	8.62				Х	Χ		
2	4.11		Χ		Χ			
3	2.24		Χ				Χ	
4	1.59		Χ					Χ
5	1.00	Χ	X					
6	0.81	Χ						Χ
7	0.74	Χ				X		
8	0.60	Χ					Χ	

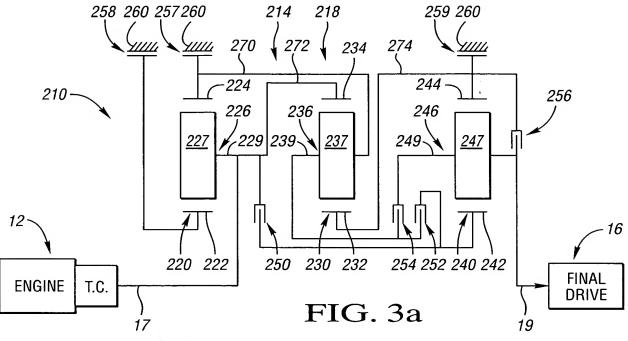
FIG. 2b

(X = ENGAGED CLUTCH)

 $\frac{\text{RING GEAR}}{\text{SUN GEAR}} \text{ TOOTH RATIO: } \frac{N_{R1}}{N_{S1}} = 2.00, \frac{N_{R2}}{N_{S2}} = 1.86, \frac{N_{R3}}{N_{S3}} = 2.00$

RATIO SPREAD	14.36
RATIO STEPS	
REV2/1	-0.50
1/2	2.10
2/3	1.83
3/4	1.41
4/5	1.59
5/6	1.23
6/7	1.09
7/8	1.24

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			, <u></u>					
	RATIOS	250	252	254	256	257	258	259
REVERSE 3	-1.73	Χ				Х		
REVERSE 2	-1.02		X			Χ		
REVERSE 1	-0.61				Χ	Х		
NEUTRAL	0.00							Χ
1	4.04		Χ					Χ
2	2.50	Χ						Χ
3	1.61			Χ				Χ
4	1.00	Χ		Χ				
5	0.65			Χ			Χ	
6	0.54	Χ					Χ	
7	0.49		Χ				Χ	
8	0.42				Х		Χ	

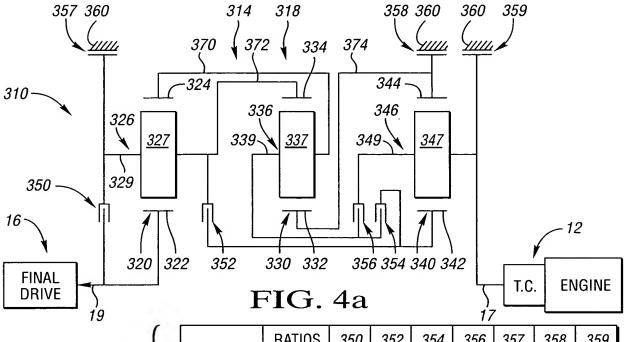
FIG. 3b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO: $\frac{N_{R1}}{N_{S1}} = 1.87$, $\frac{N_{R2}}{N_{S2}} = 1.63$, $\frac{N_{R3}}{N_{S3}} = 1.50$

RATIO SPREAD	9.72
RATIO STEPS	
REV3/1	-0.43
1/2	1.61
2/3	1.55
3/4	1.61
4/5	1.54
5/6	1.20
6/7	1.12
7/8	1.17

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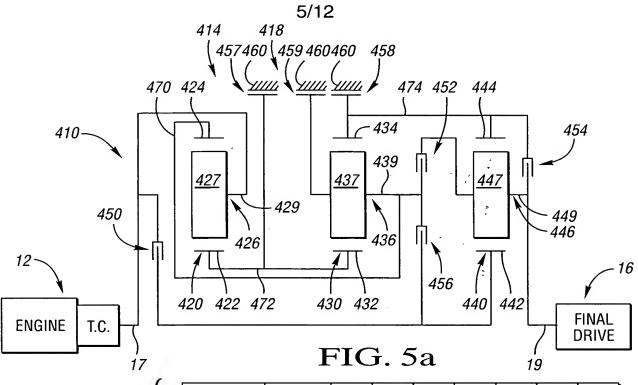
	RATIOS	350	352	354	356	357	358	359
REVERSE 2	-2.50	Х						Х
REVERSE 1	-0.66			Х		Χ		
NEUTRAL	0.00							Χ
1	5.91					Χ		Χ
2	3.58				X	Χ		
3	2.55				Χ			Х
4	1.77				Χ		X	
5	1.00		Х		Х			
6	0.70		Χ				Х	
7	0.63		Х					Х
8	0.50			Х			Χ	
9	0.42			Х				Х

FIG. 4b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO: $\frac{N_{R_1}}{N_{S_1}} = 1.51$, $\frac{N_{R_2}}{N_{S_2}} = 2.56$, $\frac{N_{R_3}}{N_{S_3}} = 2.50$

RATIO SPREAD	14.01
RATIO STEPS	
REV2/1	-0.42
1/2	1.65
2/3	1.40
3/4	1.44
4/5	1.77
5/6	1.42
6/7	1.11
7/8	1.26
8/9	1.19



	RATIOS	450	452	454	456	457	458	459
REVERSE 3	-2.46	Χ					77	Χ
REVERSE 2	-1.35				Χ			Χ
REVERSE 1	-0.90			Χ				Χ
NEUTRAL	0.00						Χ	
1	5.71				Χ		Χ	
2	3.00	Χ					Χ	
3	1.90		Χ				Χ	
4	1.00		Χ		Χ			
5	0.70		Χ			Χ		
6	0.62	Χ				Χ		
7	0.57				Χ	Х		
8	0.52			Χ		Χ		

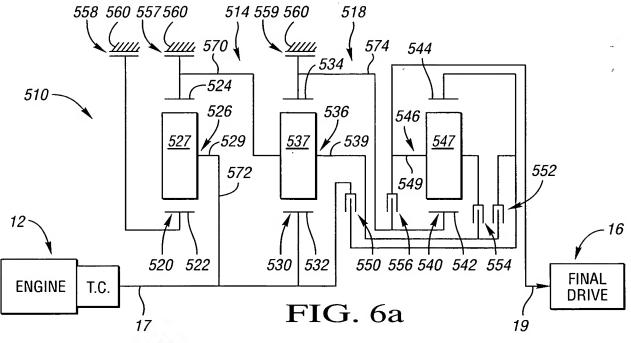
FIG. 5b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO: $\frac{N_{R1}}{N_{S1}} = 2.28$, $\frac{N_{R2}}{N_{S2}} = 2.97$, $\frac{N_{R3}}{N_{S3}} = 2.00$

RATIO SPREAD	10.99
RATIO STEPS	
REV3/1	-0.43
1/2	1.90
2/3	1.58
3/4	1.90
4/5	1.44
5/6	1.12
6/7	1.09
7/8	1.09

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	RATIOS	550	552	554	556	557	558	559
REVERSE 2	-4.91		Χ			Χ		
REVERSE 1	-1.51				Χ	Χ		
NEUTRAL	0.00		Χ					
1	3.62		X					Х
2	2.51			Χ				Χ
3	2.04	Χ				Χ		
4	1.44	Χ						X
5	1.00	Χ		Χ				
6	0.75	Х					Χ	
7	0.60			Χ			Χ	
8	0.56		Χ				Х	
9	0.48				Χ		Χ	

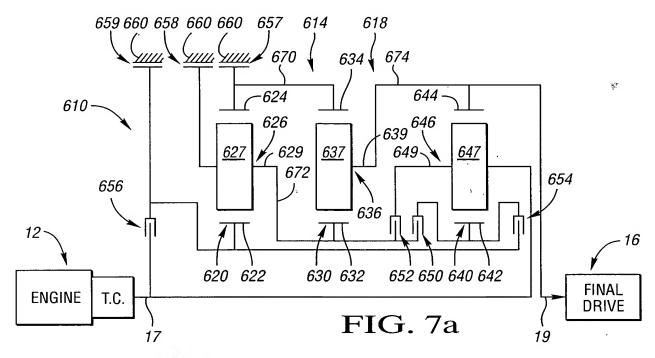
FIG. 6b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO: $\frac{N_{R1}}{N_{S1}} = 1.51$, $\frac{N_{R2}}{N_{S2}} = 1.51$, $\frac{N_{R3}}{N_{S3}} = 2.26$

RATIO SPREAD	7.61
RATIO STEPS	
REV1/1	-0.42
1/2	1.44
2/3	1.74
3/4	1.44
4/5	1.34
5/6	1.24
6/7	1.08
7/8	1.17

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	RATIOS	650	652	654	656	657	658	659
REVERSE 2	-3.33				Χ		Χ	
REVERSE 1	-0.73			Χ			Χ	
NEUTRAL	0.00				Х			
1	7.48				Χ	Χ		
2	3.59			Χ		Χ		
3	2.50		Χ			Χ		
4	1.60	Χ				Χ		
5	1.00	Χ	Χ					
6	0.91	Χ						Χ
7	0.70		Χ					Χ
8	0.60			X				Χ

FIG. 7b

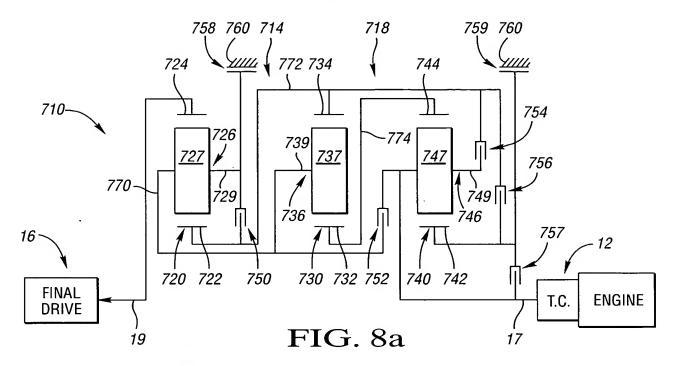
(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO: $\frac{N_{R1}}{N_{S1}} = 2.00$, $\frac{N_{R2}}{N_{S2}} = 1.50$, $\frac{N_{R3}}{N_{S3}} = 1.50$

RATIO SPREAD	12.46
RATIO STEPS	
REV2/1	-0.44
1/2	2.08
2/3	1.44
3/4	1.56
4/5	1.60
5/6	1.10
6/7	1.18
7/8	1.28

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	RATIOS	750	752	754	756	757	758	759
REVERSE	-2.92			Х			Х	
NEUTRAL	0.00						Х	
1	4.42					X	Χ	
2	2.96						Χ	Χ
3	1.99				Χ		Χ	
4	1.25				Χ			Χ
5	1.00		Χ		Χ			
6	0.90		Χ					Χ
7	0.79			Χ				Χ
8	0.67	Χ						Χ

FIG. 8b

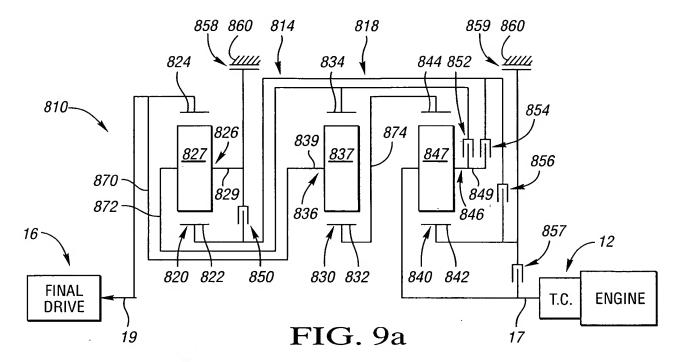
(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO: $\frac{N_{R_1}}{N_{S_1}} = 2.97$, $\frac{N_{R_2}}{N_{S_2}} = 1.51$, $\frac{N_{R_3}}{N_{S_3}} = 2.03$

RATIO SPREAD	6.59
RATIO STEPS	
REV/1	-0.66
1/2	1.49
2/3	1.49
3/4	1.59
4/5	1.25
5/6	1.11
6/7	1.14
7/8	1.18

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	RATIOS	850	852	854	856	857	858	859
REVERSE	-2.65			Χ			Χ	
NEUTRAL	0.00						Χ	
1	3.99					Χ	Χ	
2	2.77						Χ	Χ
3	1.96				Χ		Χ	
4	1.26				Χ		·	Χ
5	1.00		Χ		Χ			
6	0.90		Χ					Χ
7	0.81			Χ				Χ
8	0.69	X						Χ

FIG. 9b

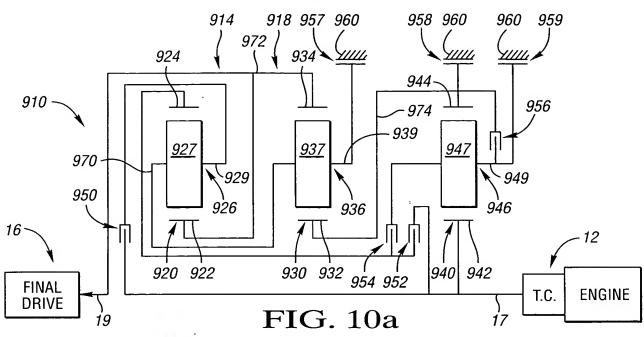
(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO: $\frac{N_{R1}}{N_{S1}} = 2.65$, $\frac{N_{R2}}{N_{S2}} = 2.98$, $\frac{N_{R3}}{N_{S3}} = 2.27$

RATIO SPREAD	5.74
RATIO STEPS	
REV/1	-0.66
1/2	1.44
2/3	1.41
3/4	1.55
4/5	1.26
5/6	1.11
6/7	1.12
7/8	1.16

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								,
	RATIOS	950	952	954	956	957	958	959
REVERSE 2	-2.99				Χ	Х		
REVERSE 1	-0.67		Χ			Χ		
NEUTRAL	0.00					Χ		
1	5.61					Χ		X
2	3.69			Χ		Χ		
3	2.62			Χ				Χ
4	1.68			Χ			Χ	
5	1.00	Χ		Χ				
6	0.75	Χ					Χ	
7	0.66	Χ						Χ
8	0.58		Χ				Χ	
9	0.48		Χ					Χ

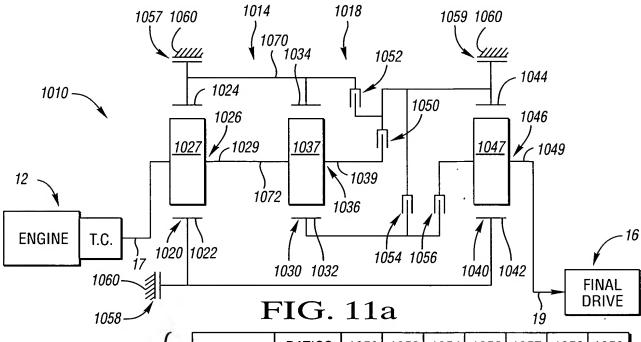
FIG. 10b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO: $\frac{N_{R1}}{N_{S1}} = 1.50$, $\frac{N_{R2}}{N_{S2}} = 2.99$, $\frac{N_{R3}}{N_{S3}} = 1.88$

RATIO SPREAD	11.78
RATIO STEPS	
REV2/1	-0.53
1/2	1.52
2/3	1.41
3/4	1.56
4/5	1.68
5/6	1.33
6/7	1.13
7/8	1.14
8/9	1.21

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	RATIOS	1050	1052	1054	1056	1057	1058	1059
REVERSE 2	-4.29				Χ			Х
REVERSE 1	-1.57	X						Χ
NEUTRAL	0.00			:	Χ			
1	4.53				Χ		Χ	
2	2.72	X					Χ	
3	1.68			Χ			Χ	
4	1.21		Χ				Χ	
5	1.00		Χ	Χ				
6	0.68		Χ			Χ		
7	0.48			Χ		Χ		
8	0.37	Х				Χ		
9	0.33				Χ	Χ		

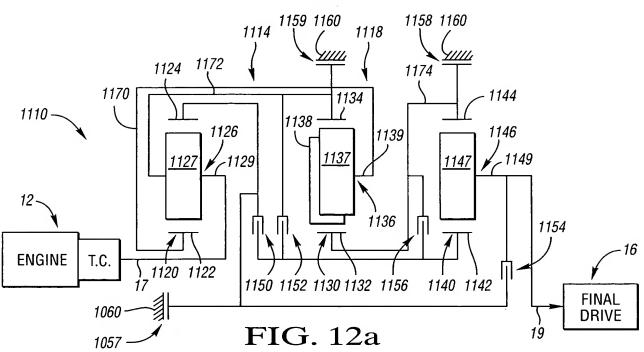
FIG. 11b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO: $\frac{N_{R1}}{N_{S1}} = 2.65$, $\frac{N_{R2}}{N_{S2}} = 1.67$, $\frac{N_{R3}}{N_{S3}} = 1.50$

RATIO SPREAD	13.73
RATIO STEPS	
REV2/1	-0.95
1/2	1.67
2/3	1.63
3/4	1.38
4/5	1.21
5/6	1.46
6/7	1.41
7/8	1.30
8/9	1.12





	RATIOS	1150	1152	1154	1156	1157	1158	1159
REVERSE 3	-2.08		Χ			Χ		
REVERSE 2	-1.14	Χ				X		
REVERSE 1	-0.68				Χ	Χ		
NEUTRAL	0.00						Χ	
1	4.21	X					X	
2	2.50		Х				Χ	
3	1.68			Χ			Χ	
4	1.00	Χ		Χ				
5	0.62			Χ				Χ
6	0.52		Χ					Χ
7	0.46	Х						Χ
8	0.40				Х			Χ

FIG. 12b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO: $\frac{N_{R1}}{N_{S1}} = 1.63$, $\frac{N_{R2}}{N_{S2}} = 2.51$, $\frac{N_{R3}}{N_{S3}} = 1.50$

RATIO SPREAD	10.56
RATIO STEPS	
REV3/1	-0.50
1/2	1.68
2/3	1.49
3/4	1.68
4/5	1.61
5/6	1.18
6/7	1.13
7/8	1.17